MICC TECH. LIMITED

Thermocouple and Extension Grade Alloy

American standard ANSI MC96-1

Type of extension	Type of extension	American standard ANSI MC 96-1			
		mv	At temp ℃	Tolerance	
				Standard	Special
KX(+CHROMEL vs -ALUMEL)	(KPX):90%Ni-10%Cr	4.096	100	±2.2℃	
	(KNX):95%Ni+Al-Mn-Si	8.139	200	from 0 ℃ to 200℃	
EX(+CHROMEL vs -CONSTANTAN)	(EPX):90%Ni-10%Cr	6.319	100	±1.7℃	
	(ENX):44%Ni-balance Cu	13.421	200	from 0 ℃ to 200℃	
TX(+COPPER vs -CONSTANTAN)	(TPX):100%Cu	4.279	100	±1℃	±0.5℃
	(TNX):44%Ni-balance Cu			from 0 ℃ to 100℃	from 0 ℃ to 100℃
JX(+IRON vs -CONSTANTAN)	(JPX):100%Fe	5.269	100	±2.2℃	±1.1℃
	(JNX):44%Ni-balance Cu	10.779	200	from 0 ℃ to 200℃	from 0 ℃ to 200℃
NX(+NICROSIL vs -NISIL)	(NPX):84%Ni-14.2%Cr-Si	2.774	100	±2.2℃	
	(NNX):95%Ni-4.3%Si	5.913	200	from 0 ℃ to 200℃	

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Thermocouple and Extension Grade Alloy

European standard IEC 584-3(DIN EN 60584-3;BS 4937;NFC 42324

Type of extension	Type of extension	American standard ANSI MC 96-1			
		mv	At temp ℃	Tolerance	
				Standard	Special
KX(+CHROMEL vs -ALUMEL)	(KPX):90%Ni-10%Cr	4.096	100	±2.5℃	
	(KNX):95%Ni+Al-Mn-Si	8.139	200	from -25 ℃ to 200℃	
WX(+IRON vs - CONSTANTAN)	(WPX):100%Fe	4.096	100	±2.5℃	
	(WNX):43%Ni-2%Mn2%Fe-balance Cu	8.139	200	from 0 ℃ to 150℃	
VX(+COPPER vs-CONSTANTAN)	(VPX):100%Cu	4.096	100	±2.2℃	
	(VNX):44%Ni-balance Cu	-		from 0 ℃ to 100℃	
EX(+CHROMEL vs -CONSTANTAN)	(EPX):90%Ni-10%Cr	6.319	100	±2.5℃	±1.5℃
	(ENX):44%Ni-balance Cu	13.421	200	from -25℃ to 200℃	from -25℃ to 200℃
TX(+COPPER vs -CONSTANTAN)	(TPX):100%Cu	4.279	100	±1℃	±0.5℃
	(TNX):44%Ni-balance Cu			from -25 ℃ to 100℃	from -25℃ to 100℃
JX(+IRON vs -CONSTANTAN)	(JPX):100%Fe	5.269	100	±2.5℃	±1.5℃
	(JNX):44%Ni-balance Cu	10.779	200	from -25℃ to 200℃	from -25 ℃ to 200℃
NX(+NICROSIL vs -NISIL)	(NPX):84%Ni-14.2%Cr-Si	2.774	100	±2.5℃	±1.5℃
	(NNX):95%Ni-4.3%Si	5.913	200	from -25℃ to 200℃	from -25℃ to 200℃

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Thermocouple and Extension Grade Alloy

Japanese standard JIS C1610

Type of extension	Type of extension	American standard ANSI MC 96-1			
		mv	At temp ℃	Tolerance	
				Standard	Special
KX(+CHROMEL vs -ALUMEL)	(KPX):90%Ni-10%Cr	4.096	100	±100MV	±60MV
	(KNX):95%Ni+Al-Mn-Si	8.139	200	from -25 ℃ to 200℃	from -25 ℃ to 200℃
WX(+IRON vs - CONSTANTAN)	(WPX):100%Fe	4.096	100	±100MV	
	(WNX):43%Ni-2%Mn2%Fe-balance Cu	8.139	200	from 0 ℃ to 150℃	
EX(+CHROMEL vs -CONSTANTAN)	(EPX):90%Ni-10%Cr	6.319	100	±200MV	±120MV
	(ENX):44%Ni-balance Cu	13.421	200	from -25℃ to 200℃	from -25℃ to 200℃
TX(+COPPER vs -CONSTANTAN)	(TPX):100%Cu	4.279	100	±160MV	±30MV
	(TNX):44%Ni-balance Cu			from -25 ℃ to 100℃	from -25℃ to 100℃
JX(+IRON vs -CONSTANTAN)	(JPX):100%Fe	5.269	100	±140MV	±185MV
	(JNX):44%Ni-balance Cu	10.779	200	from -25℃ to 200℃	from -25 ℃ to 200℃
NX(+NICROSIL vs -NISIL)	(NPX):84%Ni-14.2%Cr-Si	2.774	100	±200MV	±60MV
	(NNX):95%Ni-4.3%Si	5.913	200	from -25℃ to 200℃	from -25℃ to 200℃